

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-9 (Canceled).

Claim 10 (New): A microfluidic device comprising:

a microfluidic chip assembled to an electrospray structure, wherein the microfluidic chip includes at least one microfluidic channel leading through an outlet aperture to a surface area of the microfluidic chip, wherein the electrospray structure includes at least one thin, planar point, which point is provided with a capillary slot that terminates at the end of the point so as to form an aperture for ejection of a liquid to be sprayed, wherein the electrospray structure is arranged on the surface area of the microfluidic chip so that the point is cantilevered with respect to the microfluidic chip and so that the outlet aperture of the microfluidic device leads to the capillary slot of the point; and

means for applying an electrospray voltage to the liquid to be sprayed.

Claim 11 (New): A microfluidic device according to claim 16, wherein the microfluidic chip is assembled to the electrospray structure by adhesive.

Claim 12 (New): A microfluidic device according to claim 11, wherein the adhesive is electrically conductive, and the means for applying an electrospray voltage includes a layer of the adhesive that extends to the capillary slot, at a level of the outlet aperture of the microfluidic channel so as to form an electrospray electrode.

Claim 13 (New): A microfluidic device according to claim 12, wherein the means for applying an electrospray voltage includes a contact element located on the microfluidic chip, electrically connected to the adhesive layer and allowing for an external electrical connection.

Claim 14 (New): A microfluidic device according to claim 10, wherein the electrospray structure is secured to an electrically conductive element of which a portion is arranged opposite the capillary slot, at a level of the outlet aperture of the microfluidic channel, so as to form an electrospray electrode.

Claim 15 (New): A microfluidic device according to claim 14, wherein the electrospray structure has a contact groove formed transversally in the structure so as to open out at a level of the outlet aperture of the microfluidic channel and expose the electrically conductive element.

Claim 16 (New): A microfluidic device according to claim 14, wherein the electrically conductive element is an element constituting a substrate for producing the electrospray structure.

Claim 17 (New): A microfluidic device according to claim 16, wherein the electrospray structure includes a leg configured to be received in a recess of the microfluidic chip.

Claim 18 (New): A microfluidic device according to claim 17, wherein the leg includes a groove, and the leg and the recess are arranged so that the groove ensures communication of fluid between the outlet aperture of the microfluidic channel, located at a base of the recess, and the capillary slot.